Snapshot Report

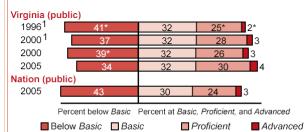
NCES 2006-467VA8

The National Assessment of Educational Progress (NAEP) assesses science in two major dimensions: Fields of Science (Earth, Physical, and Life) and Knowing and Doing Science (Conceptual Understanding, Scientific Investigation, and Practical Reasoning). The NAEP science scale ranges from 0 to 300. Scales are created separately for each grade.

Overall Science Results for Virginia

- In 2005, the average scale score for eighth-grade students in Virginia was 155. This was higher than their average score in 2000 (151), and was higher than their average score in 1996 (149).
- Virginia's average score (155) in 2005 was higher than that of the nation's public schools (147).
- Of the 44 states and one jurisdiction that participated in the 2005 eighth-grade assessment, students' average scale score in Virginia was higher than those in 23 jurisdictions, not significantly different from those in 13 jurisdictions, and lower than those in 8 jurisdictions.²
- The percentage of students in Virginia who performed at or above the NAEP *Proficient* level was 35 percent in 2005. This percentage was greater than that in 2000 (29 percent), and was greater than that in 1996 (27 percent).
- The percentage of students in Virginia who performed at or above the NAEP Basic level was 66 percent in 2005. This percentage was greater than that in 2000 (61 percent), and was greater than that in 1996 (59 percent).

Student Percentages at NAEP Achievement Levels



¹ Accommodations were not permitted for this assessment.

NOTE: The NAEP grade 8 science achievement levels correspond to the following scale points: Below *Basic*, 142 or lower; *Basic*, 143–169; *Proficient*, 170–207; *Advanced*, 208 or above.

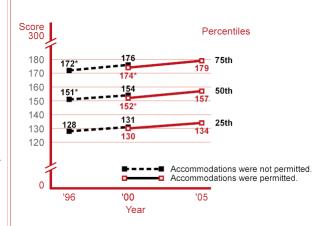
Performance of NAEP Reporting Groups in Virginia: 2005

Reporting groups	Percent of students	Average score	Percent below Basic	Percent of stude Basic	ents at or above Proficient	Percent Advanced
Male	51	157	32	68	37	5
Female	49	153↑	36↓	64↑	32↑	3
White	61	1651	21↓	79↑	451	6↑
Black	26	133	63	37	10	#
Hispanic	6	141	49	51	22	2
Asian/Pacific Islander	5	161	26	74	38	3
American Indian/Alaska Native	#	‡	‡	‡	‡	‡
Eligible for free/reduced-price school lunch	281	136 🕇	58↓	42↑	13	1
Not eligible for free/reduced-price school lunch	71	163 ↑	24↓	76↑	43↑	6

Average Score Gaps Between Selected Groups

- In 2005, male students in Virginia had an average score that was higher than that of female students by 4 points. In 1996, there was no significant difference between the average score of male and female students.
- In 2005, Black students had an average score that was lower than that of White students by 33 points. In 1996, the average score for Black students was lower than that of White students by 32 points.
- In 2005, Hispanic students had an average score that was lower than that of White students by 24 points. Data are not reported for Hispanic students in 1996, because reporting standards were not met. Therefore, the performance gap results are not reported.
- In 2005, students who were eligible for free/reduced-price school lunch, an indicator of poverty, had an average score that was lower than that of students who were not eligible for free/reduced-price school lunch by 28 points. In 1996, the average score for students who were eligible for free/reduced-price school lunch was lower than the score of those not eligible by 31 points.
- In 2005, the score gap between students at the 75th percentile and students at the 25th percentile was 45 points. In 1996, the score gap between students at the 75th percentile and students at the 25th percentile was 44 points.

Science Scale Scores at Selected Percentiles



Scores at selected percentiles on the NAEP science scale indicate how well students at lower, middle, and higher levels performed.

The estimate rounds to zero.

‡ Reporting standards not met.

* Significantly different from 2005.

† Significantly higher than 2000. ↓ Significantly lower than 2000.

unrounded scale scores or percentages.

2 "Jurisdiction" refers to states and the Department of Defense Education Activity schools.

NOTE: Detail may not sum to totals because of rounding and because the "Information not available" category for free/reduced-price school lunch and the "Unclassifed" category for race/ethnicity are not displayed. Visit https://nces.ed.gov/nationsreportcard/states/ for additional results and detailed information. SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1996, 2000, and 2005 Science Assessments.

¹ Comparisons (higher/lower/not different) are based on statistical tests. The .05 level was used for testing statistical significance. Comparisons across jurisdictions and comparisons with the nation or within a jurisdiction across years may be affected by differences in exclusion rates for students with disabilities (SD) and English language learners (ELL). The exclusion rates for SD and ELL in Virginia were 3 percent and 1 percent in 2005, respectively. Statistical comparisons are calculated on the basis of unrounded scale scores or percentages.